

List of All Chemicals

P Eruca sativa (Brassicaceae)

Common name(s)

Bou kahli (Arab.; BOU); Rajika (Sansk.; KAB); Sarshapa (Sansk.; KAB); Kadamba (Sansk.; KAB); Grahagna (Sansk.; KAB); Gery (Arab.; BOU); Izgin (Turkey; EB54:155); Ai'afein (Arab.; BOU); Lamba (India; USN); Roqueta (Sp.; USN); Arugula (Eng.; FAC; USN); Jambeho (Sind.; KAB); Djerdjir (Arab.; BOU); Euzomon (Greece; EB54:155); Sidharta (Sansk.; KAB); Kerkas (Arab.; BOU); Oroth (Bible; EB52:394); Roquette (Eng.; Fr.; BOU); Thorfel (Berber; BOU); Sarishapa (Sansk.; KAB); Sidhaprayojana (Sansk.; KAB); Eruca (Malta; KAB); Tuverika (Sansk.; KAB); Oruga comun (Sp.; USN); Jamba (India); Lalu (Nwp.; KAB); Suffed shorshi (Bengal; DEP); Dua (Kumaon; DEP); Jambho (Sind.; DEP); Garden Rocket (Eng.; USN); Senfrawke (Ger.; USN); Kadambaka (Sansk.; KAB); Shwetsursha (Bengal; SKJ); Bimbata (Sansk.; KAB); Duan (Nwp; KAB); Tantuka (Sansk.; KAB); Rawk (Arab.; BOU); Ugragandha (Sansk.; KAB); Eihukan (Iran; NAD); Salad Rocket (Eng.; USN); Tanakfail (Berber; BOU); Mulai (Loralai; KAB); Ruke (Ger.; USN); Rabano silvestre (It.; Port.); Olrauke (Ger.; USN); Gargir (Arab.; Hebrew; BOU); Mandao (Afg.; DEP; KAB); Rajakshavaka (Sansk.; KAB); Achnef (Berber; BOU); Chara (Kumaon; DEP); Jambeh (Iran; DEP; KAB); Sfed sarson (Hindi; MPI); Roquette cultivee (Fr.; KAB); Daradharsha (Sansk.; KAB); Kibana suzushiro (Jap.; TAN); Tantubha (Sansk.; KAB); Siddartha (Sansk.; DEP; SKJ); Jammia (Punjab; DEP); Ruca (Catalan; KAB); Tira (Nwp.; DEP; KAB); Tara (Nwp.; Punjab; KAB; SKJ); Hof (Arab.; BOU); Rucheta (Malta; KAB); Rouka (Arab.; BOU); Sahwan (Nwp.; KAB); Roquette vraie (Fr.; BOU); Rocket (Eng.; BOU); Piao erh ts'ai (Chi.; TAN); Roquette des jardins (Fr.; KAB); Aruca (Malta; KAB); Rakshitaphala (Sansk.; KAB); Rugula (Eng.; USN); Shiltam (Arab.; BOU); Rucola (It.; Malta; Sp.); Ackerrauke (Ger.; MAD); Assu (Punjab; SKJ); Bhutaghna (Sansk.; SKJ); Ai'sha (Arab.; BOU); Baglet (Arab.; BOU); Taramira (India; Nwp.); Rocket Salad (Eng.; USN)

How used

Medicinal

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Chemical	Plant Part	Low PPM	High PPM	StdDev	*Reference
1-OCTEN-3-OL	Hs	--	--		*
2-ACETYLTHIAZOLE	Hs	--	--		*
2-METHYL-ANISOL	Hs	--	--		*
2-OCTANOL	Hs	--	--		*
Activities (1)					
Perfumery	Merck 11th Edition				
2-PENTYL-FURANE	Hs	--	--		*
3-OCTANOL	Hs	--	--		*
Activities (2)					
FLavor FEMA	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry				
Perfumery	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry				
3-OCTANONE	Hs	--	--		*
4-MERCAPTOBUTYL-GLUCOSINOLATE	Leaf	--	--		*
4-METHYL-SULFINYL-GLUCOSINOLATE	Leaf	--	--		*
4-METHYL-THIO-BUTYL-GLUCOSINOLATE	Leaf	--	--		*
4-METHYLTHIOBUTYL-ISOTHIOCYANATE	Hs	--	--		*
4-PENTENYL-ISOTHIOCYANATE	Hs	--	--		*
Activities (1)					
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.				
5-METHYLTHIO-PENTANENITRILE	Hs	--	--		*
5-METHYLTHIO-PENTYL-ISOTHIOCYANATE	Hs	--	--		*
ACETALDEHYDE	Hs	--	--		*
Activities (6)					
Addictive 8 ug/kg	Science News, 145: 294.				
Fungicide					
Perfumery FEMA 4-25	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry				

Respiraparalytic

Tyrosinase-Inhibitor ID50=43 ug/ml

ACETIC-ACID

Hs -- -- *

Activities (16)

Antidulant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antibacterial 5,000 ppm	
Antitotic	Martindale's 28th
Antisalmonella	
Antivaginitic 1-2%	
Expectorant	Martindale's 28th
Fungicide	Martindale's 29th
Keratogenic	
Mucolytic	Martindale's 29th
Osteolytic	
Perfumery FEMA 6,000-40,000 ppm	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Pesticide	
Protisticide	Martindale's 29th
Spermicide	Martindale's 28th
Ulcerogenic	HerbalGram No. 20, page 9.
Verrucolytic	

ACETOPHENONE

Hs -- -- *

Activities (6)

Antibacterial	
Fungicide	Tomas-Barberan, F., Iniesta-Sanmartin, E., Tomas-Lorente, F., and Rumbero, A. 1989. Antimicrobial Phenolic Compounds From Three Spanish Helichrysum Species. <i>Phytochemistry</i> . 29(4): 1093-1095. 1990.
Hypnotic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Perfumery FEMA <10,000	
Pesticide	
Soporific	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

ALKALOIDS

Seed -- -- List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

ALLYL-ISOTHIOCYANATE

Hs -- -- *

Activities (16)

Allergenic	
Antiasthmatic	
Antifeedant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.
Antiseptic	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Counterirritant	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Decongestant	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Embryotoxic	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Fungicide MIC=1.8-3.5 ug/ml	
Herbicide IC100=0.4 mM	Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp.
Insectiphile	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Mutagenic	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Nematicovistat 50 ug/ml	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Pesticide	
Spice FEMA 1-80 ppm	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

ASH

Seed -- 48000.0 0.0 *

BEHENIC-ACID

Seed 4725.0 7370.0 0.01 *

Activities (1)

Cosmetic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
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BENZALDEHYDE

Hs -- -- *

Activities (24)

Allergenic	
Anesthetic	
Antibacterial	
Anticancer	
Antimutagenic	
Antipeptic	
Antiseptic	
Antispasmodic	
Antitumor	
Candidicide	
FLavor FEMA 150-800	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Immunostimulant	
Insecticide	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Insectifuge 50 ppm	J. Stored. Prod. Res., 22:141, 1986.
Motor-Depressant	Buchbauer et al, e.g.Buchbauer et al,1993.Therapeutic properties of essential oils and fragrances. Chap.12 in Teranishi,R, Butterly,R.G and Sugisawa,H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC
Narcotic	Merck 11th Edition
Nematicide MLC=1 mg/ml	Shoyakugaku Zasshi, 44: 183.
Pesticide	
Sedative	Buchbauer et al, e.g.Buchbauer et al,1993.Therapeutic properties of essential oils and fragrances. Chap.12 in Teranishi,R, Butterly,R.G and Sugisawa,H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC
Termiticide LD100=5 mg/g	
Tyrosinase-Inhibitor ID50=820 uM	
Tyrosinase-Inhibitor ID50=87 ug/ml	
Tyrosinase-Inhibitor ID50=0.82 mM	
Tyrosinase-Inhibitor ID50=830 uM	

BENZYL-ALCOHOL

Hs -- -- *

Activities (9)

Allergenic	Martindale's 29th
Anesthetic	Martindale's 28th
Antiodontalgic	Martindale's 28th
Antipruritic	
Antiseptic	Martindale's 29th
FLavor Fema 200-1,200	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Fungicide	
Pesticide	
Sedative	Jim Duke's personal files.

BENZYL-BENZOATE

Hs -- -- *

Activities (17)

Acaricide LD50=9.22 ug/sq cm cf DEET at 37.59 ug/sq cm	
Allergenic	Martindale's 29th
Antiasthmatic	
Antidysmenorrheic	
Antispasmodic	
Antitumor ED50=8-15	Jung, J.H., Pummangura, S., Chaichantipyuth, C., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of Melodorum fruticosum. Phytochemistry. 29(5): 1667-1670. 1990.
Artemicide LC50=2 ppm	Jung, J.H., Pummangura, S., Chaichantipyuth, C., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of Melodorum fruticosum. Phytochemistry. 29(5): 1667-1670. 1990.
CNS-Depressant	Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.
CNS-Stimulant	Martindale's 29th
FLavor FEMA 40-300	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Hypotensive	Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.
Insectifuge	Martindale's 29th
Irritant	Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

Myorelaxant	
Pediculicide	Martindale's 29th
Pesticide	
Scabicide	Merck 11th Edition

BETA-CARYOPHYLLENE	Hs	--	--	*
BETA-CITRONELLOL	Hs	--	--	*
BETA-FARNESOL	Hs	--	--	*
CARVEOL	Hs	--	--	*

Activities (1)

CNS-Stimulant

CARVONE	Hs	--	--	*
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Activities (19)

Allergenic

Antiacetylcholinesterase
IC50=1.4-1.8 mM

Antiproliferative

Antiseptic 1.5 x phenol Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176)

CNS-Stimulant

Cancer-Preventive Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

Candidstat

Carminative Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. *J. Pharm. Pharmacol.* 46: 14-18, 1994.

FLavor FEMA 80-3,000 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Fungistat

Insecticide Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.

Insectifuge

Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.

Motor-Depressant

Buchbauer et al, e.g.Buchbauer et al,1993.Theapeutic properties of essential oils and fragrances. Chap,12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC

Nematicide MLC=1 mg/ml

Shoyakugaku Zasshi, 44: 183.

Perfumery

Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Pesticide

Sedative Buchbauer et al, e.g.Buchbauer et al,1993.Theapeutic properties of essential oils and fragrances. Chap,12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. Bioactive Volatile Compounds from Plants. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC

Trichomonicide

LD100=300 ug/ml

Vermicide

CIS-3-HEXYNYL-2-METHYLBUTANOATE	Hs	--	--	*
CIS-3-HEXYNYL-ACETATE	Hs	--	--	*
CIS-3-HEXYNYL-BUTANOATE	Hs	--	--	*
CIS-HEXEN-1-OL	Hs	--	--	*
CUMINALDEHYDE	Hs	--	--	*

Activities (10)

Antibacterial

FLavor FEMA <1 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Fungicide

Singh*, G., Upadhyay, R.K. 1990. Fungitoxic Activity of Cumaldehyde, Main Constituent of the Cuminum cyminum Oil. *Fitoterapia* 62(1): 86, 1991.

Irritant

Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

Larvicide

Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.

Perfumery Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Pesticide

Sedative Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

Tyrosinase-Inhibitor

ID50=0.05 mM

Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

CUMINYL-ALCOHOL	Hs	--	--	*
DECANOL	Hs	--	--	*

Activities (1)

Nematicide MLC 100-700 ug/ml

Shoyakugaku Zasshi, 44: 183.

Pesticide

DELTA-CADINENE

Hs -- -- *

Activities (9)

Aldose-Reductase-Inhibitor

Antiacne

Antibacterial MIC800 ug/ml Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. *J. Agric. Food Chem.* 41: 1102-1105.Anticariogenic MIC800 ug/ml Muroi, H. and Kubo, I. 1993. Combination Effects of Antibacterial Compounds in Green Tea Flavor against Streptococcus mutans. *J. Agric. Food Chem.* 41: 1102-1105.

Antistreptococcic

Cytochrome-P450-Inducer

P450-Inducer

Pesticide

Testosterone-Inducer

DODECANAL

Hs -- -- *

Activities (2)

Flavor FEMA Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry 1-100

Irritant Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

DODECANOL

Hs -- -- *

Activities (1)

FLavor FEMA 1-30 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

EICOSENOIC-ACID

Seed 16425.0 34400.0 1.54 *

ERUCIC-ACID

Seed 75150.0 161460.0 0.89 *

Activities (2)

Antitumor

Lubricant Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

FAT

Seed 225000.0 351000.0 0.45 *

FURFURAL

Hs -- -- *

Activities (6)

Antiseptic Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

FLavor FEMA 1-30 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Fungicide

Insecticide

Irritant Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.

Pesticide

GLUCOERUCIN

Seed -- -- *

HEPTAN-3-OL

Hs -- -- *

HEXADECANOL

Hs -- -- *

Activities (1)

FLavor FEMA<1-2 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

HEXANAL

Hs -- -- *

Activities (5)

Antibacterial MBC=800 ug/ml

Antisalmonella MIC=400 ug/ml

Antiseptic 400-800 ug/ml

FLavor FEMA <1-5 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Pesticide

Activities (2)

Acidulant	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Flavor FEMA 2-450	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

HEXANOL

Hs -- -- *

Activities (3)

Antiseptic	
Flavor FEMA 0.2-25	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Pesticide	

HEXYL-OCTANOATE

Hs -- -- *

ISORHAMNETIN

Leaf -- -- List, P.H. and Horhammer, L., *Hager's Handbuch der Pharmazeutischen Praxis*, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.**Activities (11)**

Antibacterial	
Antihistaminic	Williamson, E. M. and Evans, F. J., <i>Potter's New Cyclopaedia of Botanical Drugs and Preparations</i> , Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Antiinflammatory	Williamson, E. M. and Evans, F. J., <i>Potter's New Cyclopaedia of Botanical Drugs and Preparations</i> , Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Antioxidant	Williamson, E. M. and Evans, F. J., <i>Potter's New Cyclopaedia of Botanical Drugs and Preparations</i> , Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Antispasmodic	Williamson, E. M. and Evans, F. J., <i>Potter's New Cyclopaedia of Botanical Drugs and Preparations</i> , Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Cancer-Preventive	Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Hepatoprotective	Advance in Chinese Medicinal Materials Research. 1985. Eds. H. M. Chang, H. W. Yeung, W. -W. Tso and A. Koo. World Scientific Publishing Co., Philadelphia Pa., page 210.
MAO-Inhibitor	
Pesticide	
Quinone-Reductase-Inducer	Yannai, S., Day, A. J., Williamson, G., Rhodes, M. J. C. 1998. Characterization of Flavonoids as Monofunctional or Bifunctional Inducers of Quinone Reductase in Murine Hepatoma Cell Lines. <i>Food Chem Toxicol</i> , 36(8): 623-630.
Vasodilator	

ISORHAMNETIN-3-GLUCOSIDE

Leaf -- -- List, P.H. and Horhammer, L., *Hager's Handbuch der Pharmazeutischen Praxis*, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.**Activities (1)**

Hepatoprotective	Advance in Chinese Medicinal Materials Research. 1985. Eds. H. M. Chang, H. W. Yeung, W. -W. Tso and A. Koo. World Scientific Publishing Co., Philadelphia Pa., page 210.
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LIGNOCERIC-ACID

Seed 4050.0 6320.0 0.28 *

Activities (1)

Antihepatotoxic	
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LIMONENE

Hs -- -- *

Activities (60)

AChE-Inhibitor	Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, <i>Oest. Biochem. & Physiol.</i> , 23, 1985, 383-8.
Acaricide LC100=8 uM	
Allelochemical	
Allergenic 1/20th carene	
Antiacylcholinesterase IC22-26=1.2 mM	
Antiadenomic	
Antialzheimeran?	Grundy, D. L. and Still, C. C., Inhibition of acetylcholinesterases by pulegone-1,2-epoxide, <i>Oest. Biochem. & Physiol.</i> , 23, 1985, 383-8.
Antiasthmatic	
Antibacterial	Revista Itiliana Eppos, 12: 5, 1994.
Anticancer	
Antiesophagitic	
Antifeedant	
Antiflu	Economic & Medicinal Plant Research, 5: 195.
Antiinflammatory	
Antilithic	
Antilymphomtic	

Antimutagenic	Economic & Medicinal Plant Research, 6: 235.
Antiobesity	
Antiseptic	
Antispasmodic ED50=0.197 mg/ml	Fitoterapia No.59-1984.
Antitumor	
Antitumor (Breast)	
Antitumor (Colon)	
Antitumor (Pancreas)	
Antitumor (Prostate)	
Antitumor (Stomach)	
Antiviral	
Apoptotic	
Bronchoprotectant	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidstat	
Chemopreventive	
Cholesterolytic	
Detoxicant	
Enterococontractant	J. Aromatherapy 4: 22.
Expectorant	
FLavor	
Fungiphilic	J. Agric. Food Chem. 43: 2283.
Fungistat	
GST-Inducer	
Herbicide IC50=45 uM	Keeler, R.F. and Tu, A.T. eds. 1991. Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6) Marcel Dekker, Inc. NY. 665 pp.
Histaminic	
Immunomodulator	
Insecticide 0.37 uM/fly	
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Interleukin-6-Inhibitor	
Irritant	
Lipolytic	
Myorelaxant 50 mg/kg	
NO-Genic	
Nematicide IC=100 ug/ml	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Ornithine-Decarboxylase-Inhibitor ~750 mg/kg (diet)	
Ozone-Scavenger	
P450-Inducer	
Peristaltic	
Pesticide	
Photosensitizer	Rinzler, C. A. 1990. The Complete Book of Herbs, Spices and Condiments. Facts on File, New York. 199 pp.
Sedative ED=1-32 mg/kg	Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176)
Transdermal	

LINOEIC-ACID

Seed 18675.0 53700.0 -0.46 *

Activities (27)

5-Alpha-Reductase-Inhibitor	
AntiMS	Economic & Medicinal Plant Research, 6: 189.
Antiacne	
Antialopeptic	
Antianaphylactic	Economic & Medicinal Plant Research, 6: 189.
Antiandrogenic	
Antiarteriosclerotic	
Antiarthritic	Economic & Medicinal Plant Research, 6: 189.
Anticorony	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antieczemic	Economic & Medicinal Plant Research, 6: 189.
Antifibrinolytic	Economic & Medicinal Plant Research, 1: 53.
Antigranular	
Antihistaminic	Economic & Medicinal Plant Research, 6: 189.
Antiinflammatory IC50=31 uM	
Antileukotriene-D4 IC50=31	
Antimenorrhagic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).

Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Carcinogenic	Science News, 146: 421.
Comedolytic	
Hepatoprotective	
Hypocholesterolemic	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Immunomodulator	Economic & Medicinal Plant Research, 6: 189.
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Metastatic	Science News, 146: 421.
Nematicide	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Propecic	

LINOLENIC-ACID	Seed	32850.0	69150.0	0.63	*
METHYL-DODECANOATE	Hs	--	--		*
METHYL-EUGENOL	Hs	--	--		*

Activities (20)

Anesthetic	
Antibacterial	Internat. J. Oriental Med. 15(4): 199, 1990+
Anticonvulsant	
Antidote (Strychnine)	
Antifeedant	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Antioxidant EC50=100 µl/l	
Antiradicular EC50=100 µl/l	
Antiseptic	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Carcinogenic	Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
FLavor FEMA 5-15	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Fungicide	
Fungistat 100 ug/ml	Laeckeman, G.M., Van Hoof, L., Haemers, A., Vanden Berghe, D.A., Herman, A.G., and Vlietinck, A.J. Eugenol a Valuable Compound for In Vitro Experimental Research and Worthwhile for Further In Vivo Investigation. Phytotherapy Research 4(3): 93, 1990.
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Myorelaxant	Fitoterapia No.61: 254, 1990.
Narcotic	
Nematicide MIC=1 mg/ml	Shoyakugaku Zasshi, 44: 183.
Perfumery	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Pesticide	
Sedative	

NONANAL	Hs	--	--	*
NONANOIC-ACID	Hs	--	--	*

Activities (2)

FLavor FEMA 1-15	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Perfumery	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

NONANOL	Hs	--	--	*
OCTANOIC-ACID	Hs	--	--	*

Activities (5)

Candidicide	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
FLavor FEMA 3-20	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Fungicide	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Perfumery	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Pesticide	

OCTANOL	Hs	--	--	*
OLEIC-ACID	Seed	22700.0	62475.0	-0.47

Activities (18)

5-Alpha-Reductase-Inhibitor

Alpha-Reductase-Inhibitor	
Anemiagenic	
Antiallopeptic	
Antiandrogenic	
Antiinflammatory IC50=21 uM	
Antileukotriene-D4 IC50=21 uM	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Choleretic 5 ml/man	
Dermatitogenic	
FLavor FEMA 1-30	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Hypocholesterolemic	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Irritant	Merck 11th Edition
Percutaneostimulant	Seki, T., Toeda, C., Kawauchi, T., Juni, K., Sugibayashi, K., and Morimoto, Y. 1990. Enhanced Transdermal Delivery of Zidovudine in Rats and Human Skin. Chem. Pharm. Bull. 38(11): 3086-3089, 1990.
Perfumery	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Propecic	

PALMITIC-ACID Seed 9000.0 18250.0 -0.32 *

Activities (13)

5-Alpha-Reductase-Inhibitor	
Antialoprecic	
Antiandrogenic	
Antifibrinolytic	Economic & Medicinal Plant Research, 1: 53.
Antioxidant IC40=60	
FLavor FEMA 1	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry Bisset, N.G., ed. 1994. <i>Herbal Drugs and Phytopharmaceuticals</i> . CRC Press. Boca Raton, FL. 566 pp.
Hemolytic	
Hypercholesterolemic	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. <i>CRC Handbook of Lipids in Human Nutrition</i> . CRC Press. Boca Raton, FL. 233 pp.)
Lubricant	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Nematicide	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.
Pesticide	
Propecic	
Soap	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.

PHYSTOSTEROL Seed -- 560.0 *

PROTEIN Seed 296000.0 374000.0 1.25 *

QUERCETIN-3'-(6-SINAPOYL-O-BETA-D-GLUCOPYRANOSYL)-
3,4'-DI-O-BETA-D-GLUCOPYRANOSIDE

QUERCETIN-3,3',4'-TRI-O-BETA-D-GLUCOPYRANOSIDE Leaf -- --

QUERCETIN-3-(2-SINAPOYL-O-BETA-D-GLUCOPYRANOSYL)-3'-**Leaf**----*

(6-SINAPOYL-O-BETA-D-GLUCOPYRANOSYL)-4'-O-BETA-D-GLUCOPYRANOSIDE

SITOSTEROL 500 mg

Activities (8)

5-Alpha-Reductase-Inhibitor	
Cosmetic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
FLavor FEMA 2-4,000	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Hypocholesterolemic	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Lubricant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Perfumery	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Propectic	
Suppository	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

TRANS,TRANS-2,4-HEPTADIENAL Hs -- --

Activities (4)

FLavor FEMA 0.7-20	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Paramecicide	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Pesticide	
Prosticide	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

TRANS-2-NONENAL

Hs -- -- *

TRANS-HEXEN-1-OL

Hs -- -- *

UNDECANAL

Hs -- -- *

Activities (2)

FLavor FEMA 1-60

Perfumery Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry